WEZ 19780303 N
Will Co.
Lemont/Land and Lakes

Land and Lakes Co.

123 N. NORTHWEST HIGHWAY (312) 825-5000 PARK RIDGE, ILLINOIS 60068

August 7, 1981

Mr. Rauf Piskin, Manager
Ground Water Management Section
Division of Land/Noise Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

Dear Mr. Piskin:

Land and Lakes Company would like to take this opportunity to present its proposal and to discuss the Agency's conclusions as stated in the letter of June 26, regarding the ground water monitoring program at the Lemont landfill facility.

The Agency's guidelines indicated that the minimum acceptable well diameter is 2" for the following reasons:

1. Agency Equipment is not designed to sample a smaller well diameter.

2. Adaquate infiltration of ground water does not occur.

It is the opinion of Land and Lakes Company that the existing 1¼" monitoring wells will perform the necessary objectives. A bailer will be located on-site and made available to Agency representatives to aid in performing the task of well sampling. Secondly, the predominantly sandy and sandy gravel soils will allow large volumes of ground water to infiltrate the well screen. Thus, it can be concluded that the 1¼" well diameter, as exists, will perform the necessary objectives.

The Agency's letter further indicates that it is the opinion of the Ground Water Management Section that the intervals of several well screens were chosen improperly. After reviewing file records and performing extensive water level studies, the findings are as follows:

1. Clearly, one unconfined aquafer exists in the vicinity of the landfill. No continuous clay strata, or impermeable rock layers are present to develop segregated or perched water tables. Thus, installation of clustered wells with screens at different elevations is unnecessary.

2. Extensive excavation and installation of the ground water underdrain system are causing the ground water level to lower near the landfill site. Therefore, any attempt to place the screen near the water surface may produce a dry well at some future date.

3. Land and Lakes Company believes the wells numbered B-2A, B-9, and B-9A will perform sufficiently throughout the post-closure period of the landfill. The samples extracted from the upstream well points will provide accurate background information about the ground water constituents. The downstream well points will serve to indicate the presence of any leaching from the landfill.

4. It is the intention of Land and Lakes Company to install new monitoring wells in place of those located in future fill areas: The proposed design of these wells is included with this report.

A supplemental permit application to begin construction of the additional wells will be submitted upon approval of this proposal by the Ground Water Management Section of the IEPA.

If any questions develop, feel free to contact me.

Sincerely yours,

LAND AND LAKES COMPANY

Robert Murphy

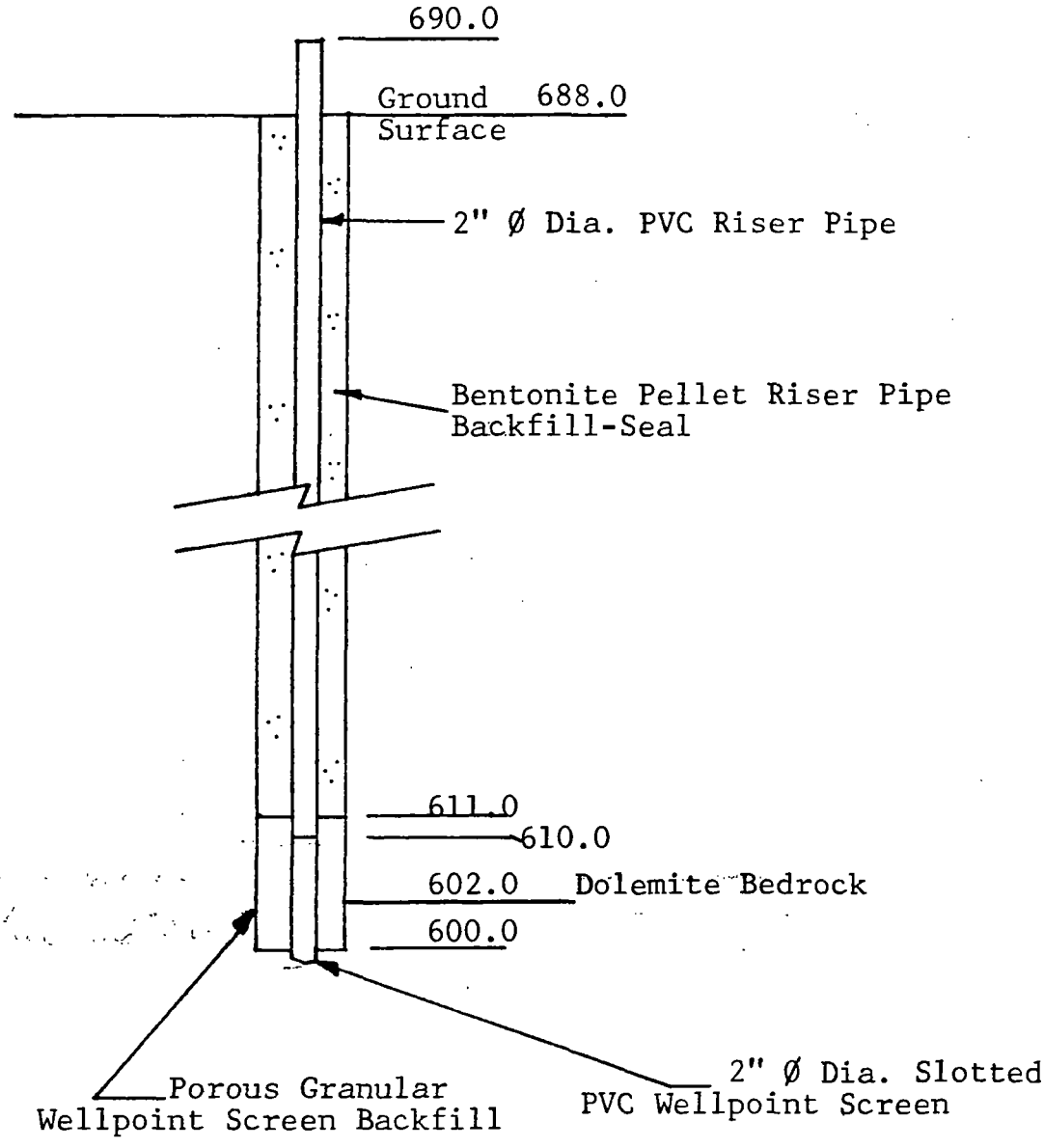
Robert M. Murphy
Civil Engineer

RMM:dja
Enclosures

PROPSED DESIGN

Schematic Diagram
Single Wellpoint Type
Piezometer

Boring No. 1-A-Revised

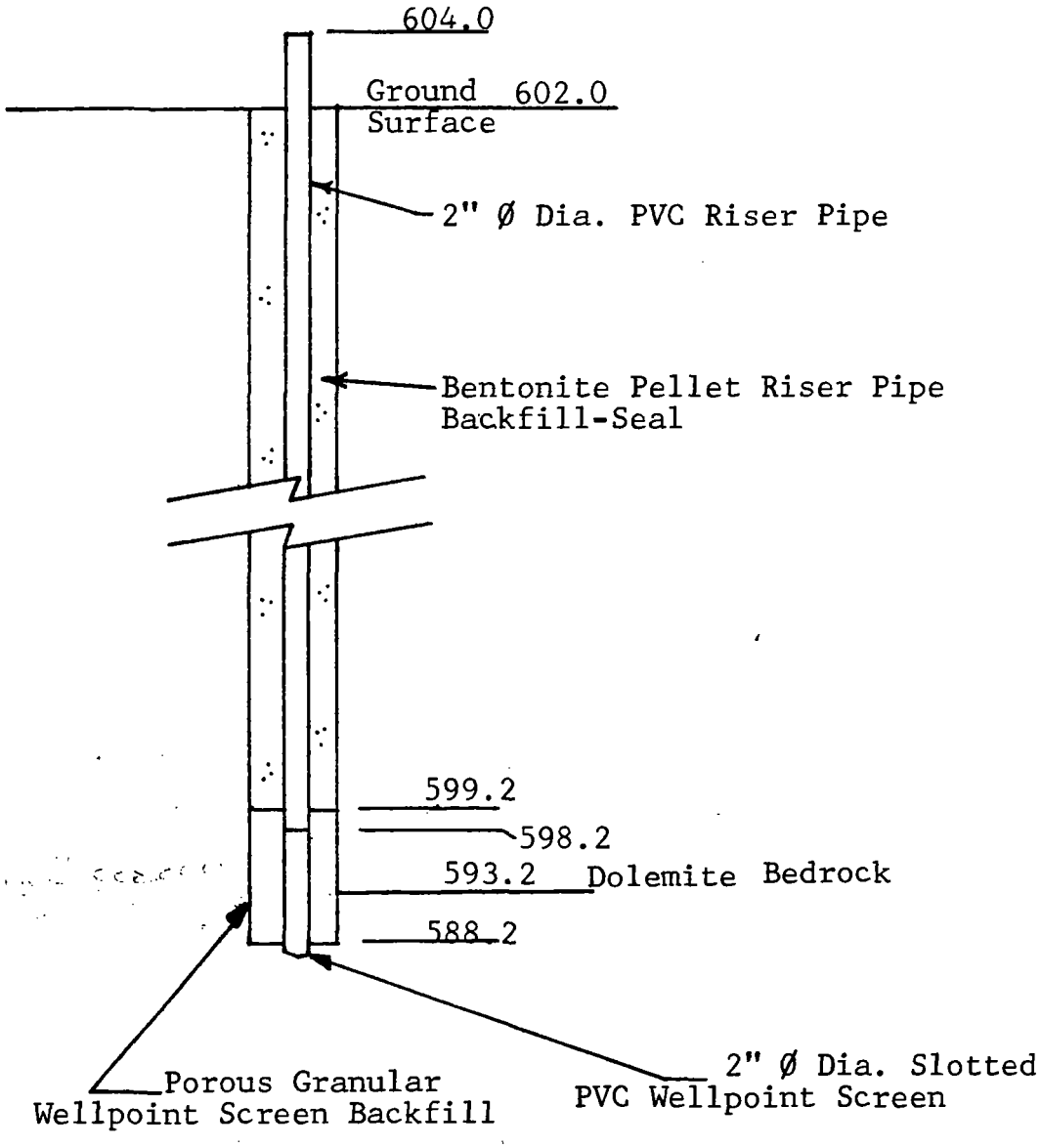


NOTE: Location of this wellpoint will be 200' east and 25' south of the Northwest Property Corner.

PROPOSED DESIGN

Schematic Diagram
Single Wellpoint Type
Piezometer

Boring No. 8-Revised



NOTE: Location of this wellpoint will be 50' south of the existing well.